In re the Patent Application of:

Andre Gilloire, et al.   Examiner: Chuong D. Ngo

Serial No. 09/762,388   Art Unit: 2124

Filed: March 19, 2001

For: **DIGITAL PROCESSING APPARATUS FOR
       FREQUENCY FILTERING WITH
       COMPUTATION OF REDUCED
       COMPLEXITY**

O.K to enter

Ch

4/28/2005

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1451

RESPONSE TO OFFICE ACTION

In response to the outstanding Office Action mailed January 4, 2005, Applicants respectfully request entry of the following amendments:

Claim 1 (Currently Amended):   A method for zeroing a portion of a time domain impulse response of a speech filter in a speech for zeroing a portion of a time domain impulse response of a filter in a speech transmission apparatus which filter has a frequency domain transfer function Z(k), said method comprising:

implementing convolution with a function U on the frequency domain transfer function Z(k) where k lies in the range 0 to N-1, wherein the function U has the form:

$$U(k) = \operatorname{sinc}\left(\frac{k - k_0}{2}\right) \cdot e^{-j\pi\left(\frac{\alpha(k-k_0)}{2}\right)} \cdot P(k)$$